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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A carrier network fulfilling a distributed virtual routing function, said carrier network comprising one or more components, each of the components comprising at least two nodes communicating with one another by means of an artery, each node comprising an access function and server functions (LES/BUS, LECS, MPS), wherein at least

one component of said network comprises the following elements:

• several ELANi-bridges bridge ELANs, each ELANi-bridge bridge ELAN being

connected to a virtual network VLANi VLAN,

at least one transit ELAN, all access functions of the same component being

adjacent through said transit ELAN, and

at the level of an access function;

router LEC means adapted to connect the access function to at least one

ELANi bridge ELAN associated with a VLANi VLAN,

means for the identification of the VLANis VLANs serviced by the access

function,

means (transit LEC) to connect the transit ELAN to the access function.

2. (Currently amended) A distributed router according to The carrier network of

claim 1, wherein the step of determining the lists of the serviced VLANi is obtained by

considering any one of the Lm-lists and determining the contents of its intersection with any

other of the lists to obtain the empty set identification means is a list, wherein for a component of

the network comprising m nodes, said list is one of m lists, said m lists defined so that the

intersection of any two of the lists provides an empty set.

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- 3. (Currently amended) A router according to claim 2, wherein a list Lm is drawn up by using an election protocol such as the VRRP protocol standardized at the IETF. The carrier network of claim 1, wherein said access function comprises an election function, said election function interfacing with corresponding election functions of other nodes by exchange of packets on the ELANi bridges bridge ELANs using the router LEC means.
- 4. (Currently amended) A router according to one of the claims 2 or 3, comprising an election function implanted in the access function FAx engaged in dialog with the homologous functions by exchange on the ELANi bridges in using the LEC routers Rix. The carrier network of claim 3, wherein said election function ensures implementation of an election protocol.
- 5. (Previously presented) The carrier network of claim 1, wherein a VLAN comprises at least one LEC user connected to a node of the carrier network.
- 6. (Previously presented) The carrier network of claim 5, wherein the LEC user function is implanted in a node of the carrier network for ethernet type access operations.
- 7. (Currently amended) The carrier network of claim 1, wherein the carrier network is an ATM type carrier network with IP type data packets.
- 8. (Currently amended) A method of routing in a switched network comprising one or more components, the component or components comprising at least two nodes connected by a communications artery, each of the nodes comprising an access function, wherein the method comprises relaying data packets received on one of the LECs a router LEC or a transit LEC using the access function as follows:

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- (a) if the addressee of a packet is an internal routing function laid out at a node X, the packet is directly handed over to said function,
- (b) if the addressee of a packet is a VLAN serviced by the access function, the data packet is relayed to the router LEC of the node X corresponding to the VLAN serviced, and
- (c) if the addressee of a packet is a VLAN that is not serviced, the packet is relayed on [[the]] a transit ELAN via [[a]] the transit LEC of a node X to [[a]] the transit LEC of a node Y.
 - 9. (Currently amended) The method of claim 8,

wherein said access function comprises a list of identifying VLANs serviced, a routing table, and a relaying function, and

wherein the step (b) is carried out as follows:

if the addressee VLAN belongs to the list, the relaying function of the access
function is activated and the data packet is relayed to the router LEC having an
identifier that is the identifier of the addressee VLAN, and

wherein the step (c) is carried out as follows:

- if the addressee VLAN does not belong to the list, the data packet is relayed to the transit LEC of a node Y as mentioned in the routing table.
- 10. (Currently amended) The method of claim 8 or 9, wherein the relaying step is performed for a data packet data packets relayed using the access function are received [[on]] from the router LEC implanted in an access function.
- 11. (Currently amended) The method of claim 8 or 9, wherein the relaying step is achieved for a data packet received [[on]] from the transit LEC implanted in an access function.

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12. (Previously presented) The routing method of claim 8, wherein the switched network is an ATM type carrier network with IP data packets.

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